



SOUTHCOAST WIND

Project Update:
Portsmouth Town Workshop

May 25, 2023

Agenda

- Welcome & Introductions
- Project Overview
- Permitting Process
- Project Benefits
- Next Steps
- Q&A

Project Overview



SouthCoast Wind

Lease Area

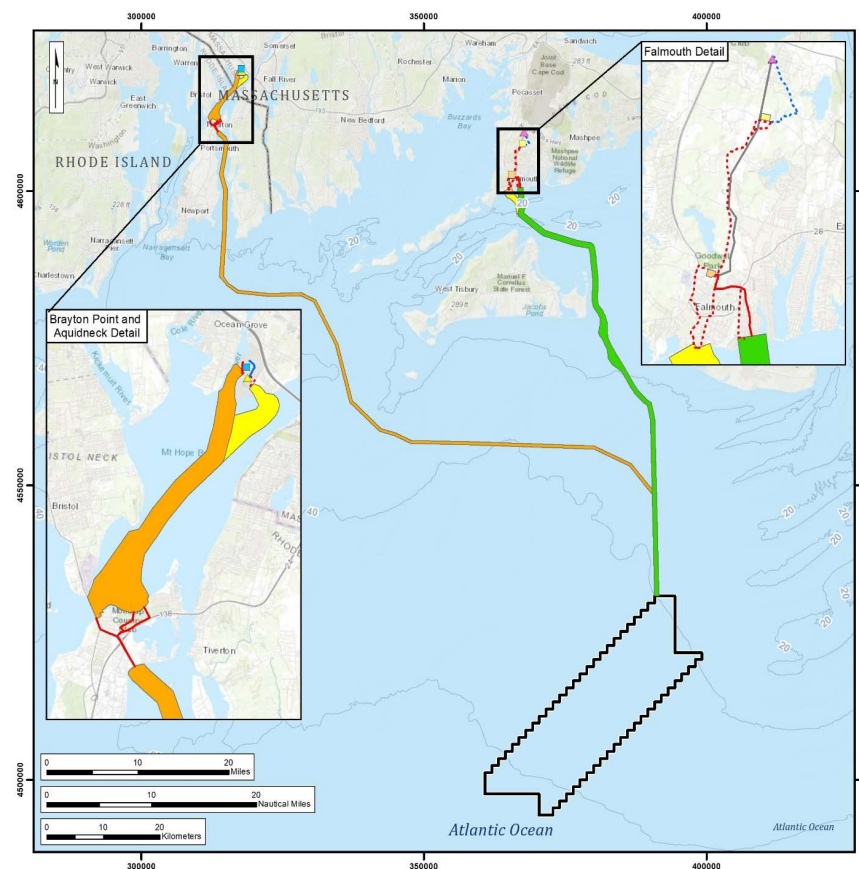
- 127,000 acres
- 149 Positions for turbines & offshore substation platforms
- Uniformly spaced 1 nm x 1 nm grid for layout

Generation Potential

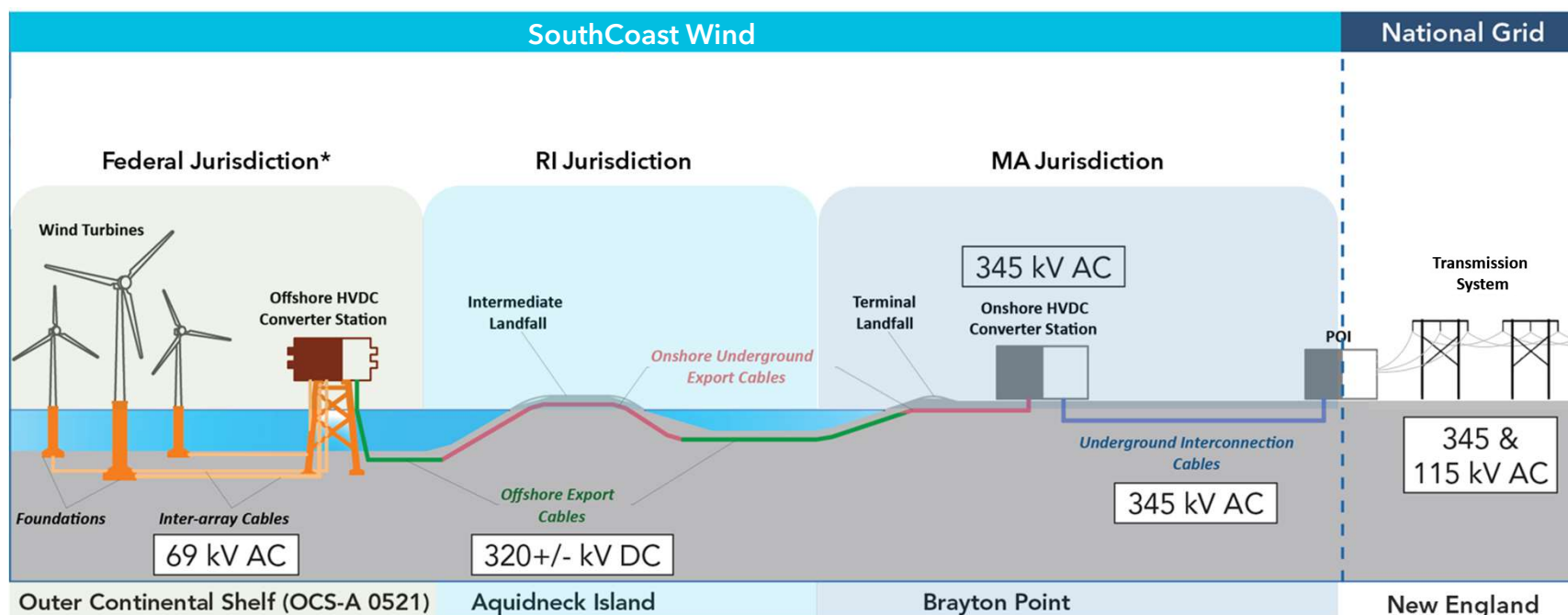
- Up to 2,400 MW

Two Delivery Points

- **Brayton Point, Somerset, MA**
 - 1,200 MW
- **Falmouth, MA**
 - 1,200 MW



Overview of Project Components



Key

* BOEM review covers entire project

AC: Alternating current
DC: Direct current
kV: Kilovolt (measures voltage)

MW: Megawatt (measures bulk power)
POI: Point of interconnection to the regional grid

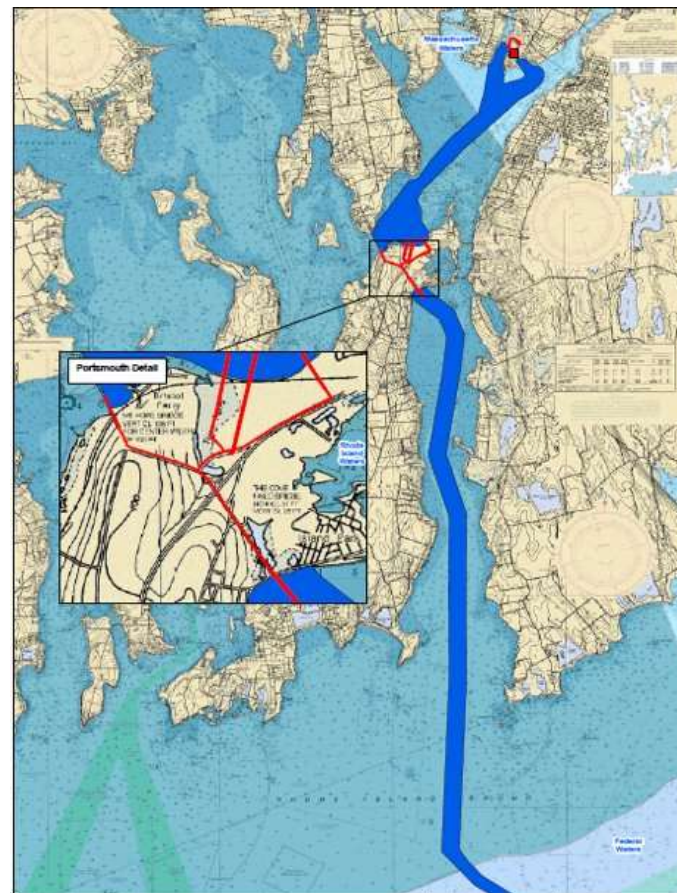
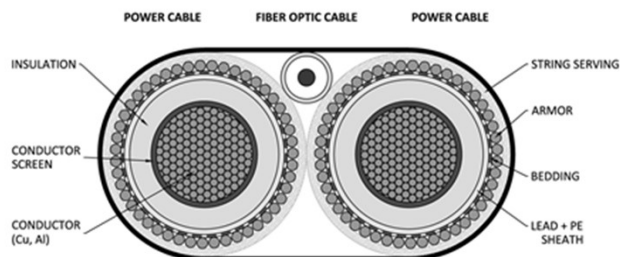
Brayton Point Export Cable Route

Export Cable Route (approx.):

- Federal Waters (90 mi)
- Sakonnet River (16 mi)
- Overland in Portsmouth (2 mi)
- Mount Hope Bay (6 Miles)

Cable Bundle Specs & Logistics:

- # of Cable Bundles: 1
- Bundle Diameter: Approx. 13"
- Target Burial Depth: 6'



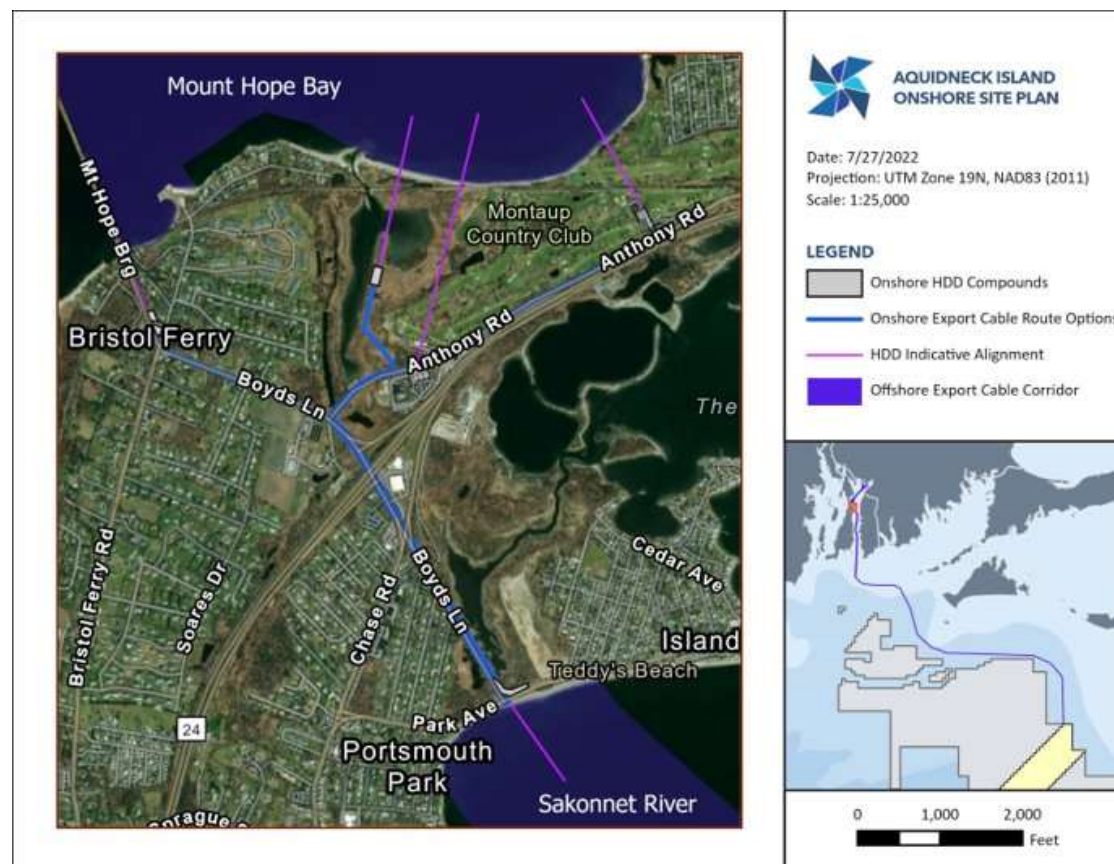
Onshore Routing in Portsmouth

Routing Analysis

- Follows existing roads
- Prioritizes routes to the northeast to avoid passage through dense residential neighborhoods

Construction Logistics

- Rolling lane closures
- Coordination w/ town & DOT on timing, noise, traffic, etc.
- Construction activities to occur in off-season to the maximum extent practicable

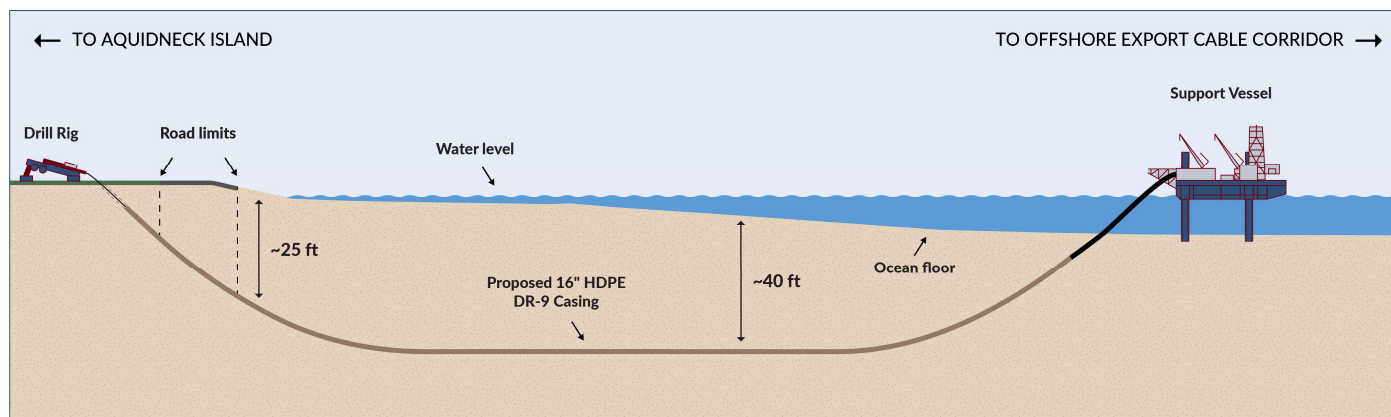


Sea-to-Shore Transition

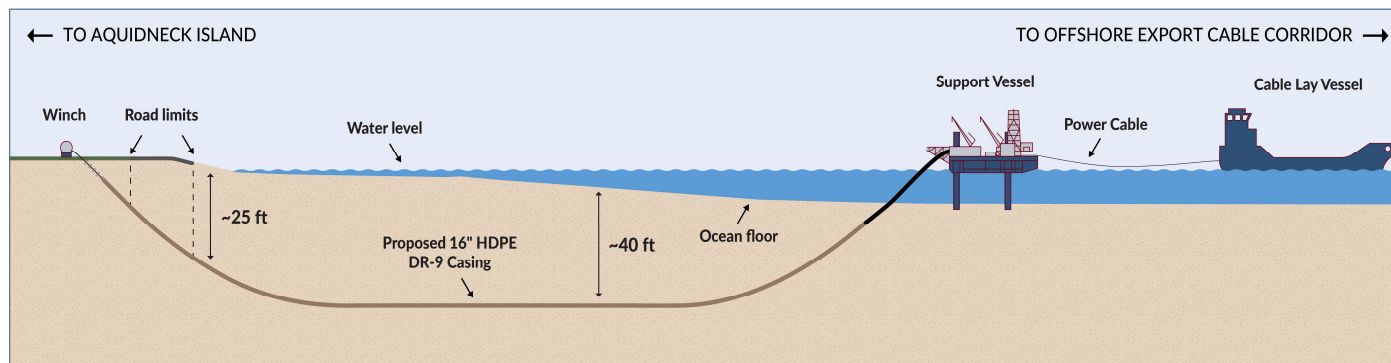
Horizontal Directional Drilling (HDD)

- Trenchless method used at all landfall sites to avoid seabed and ground surface disturbance
- Use of HVDC cables reduces number and size of HDDs

Cables will be located deep under the beach/shoreline and protected from exposure by erosion

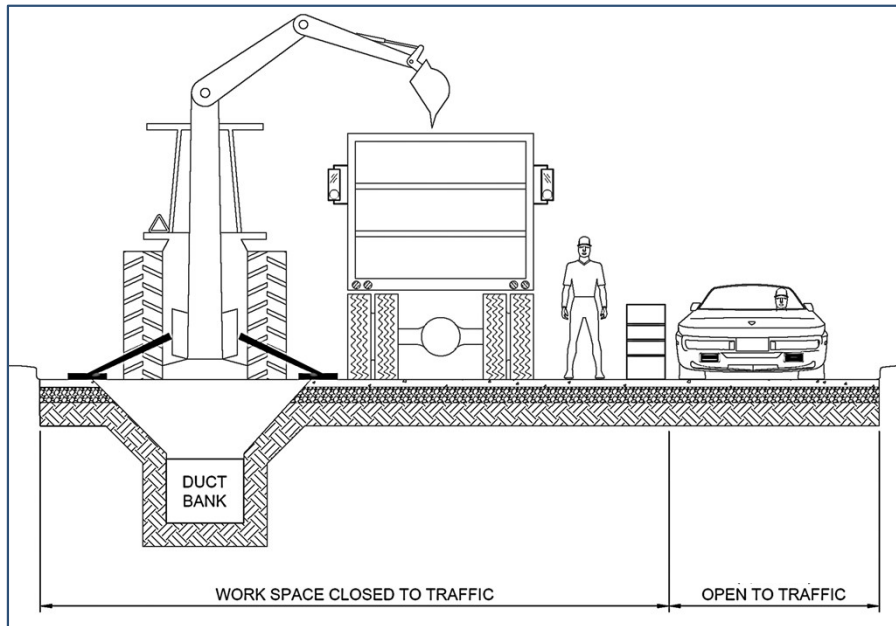


Horizontal Directional Drilling

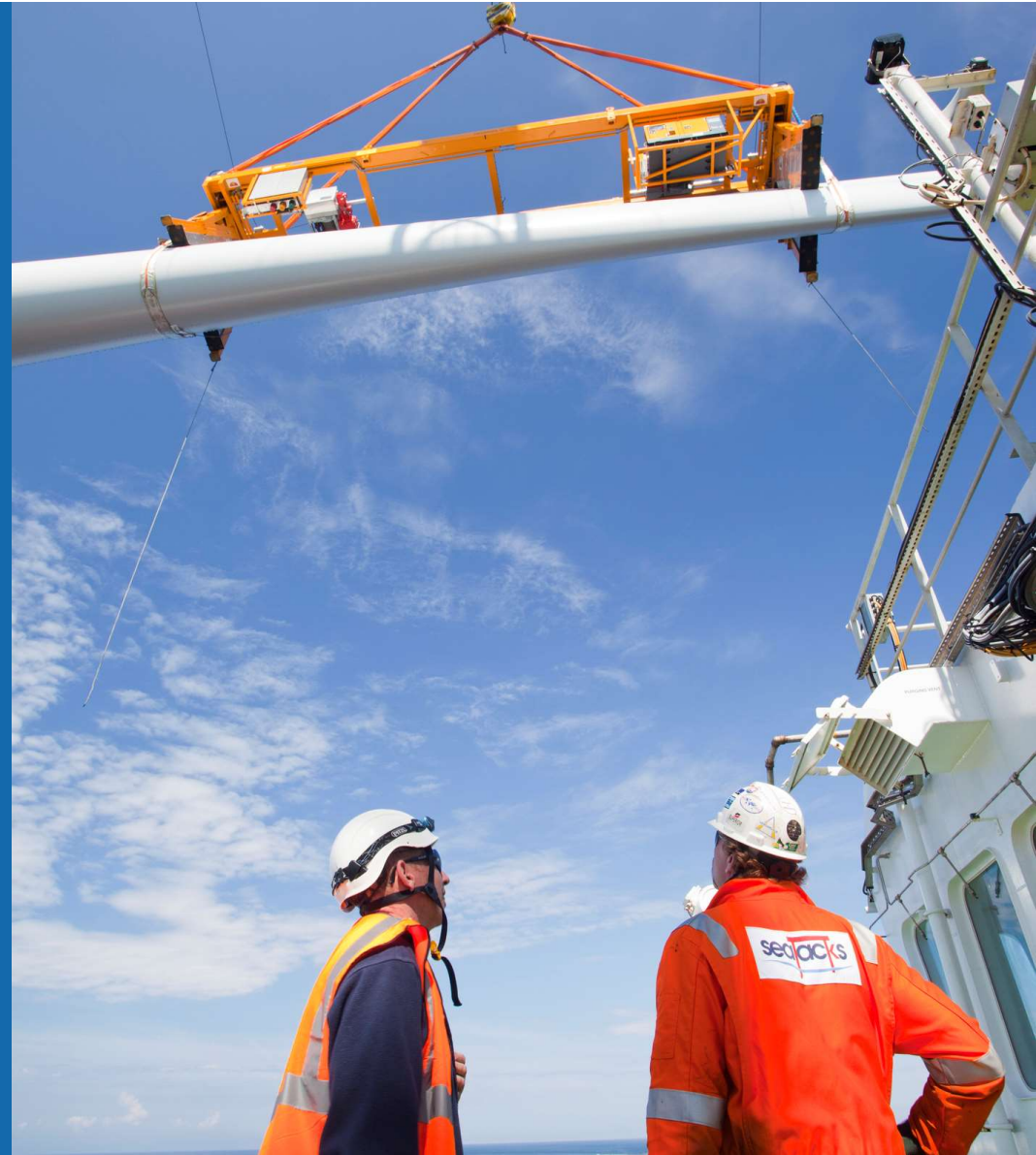


Cable Pull-in

Indicative Construction – Before & After



Permitting Process



Permitting Process – At a Glance

FEDERAL



US Army Corps
of Engineers®



RI STATE



MA STATE



Massachusetts Office of
Coastal Zone Management

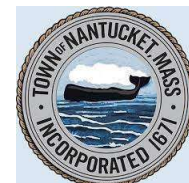


ENERGY
FACILITIES SITING
BOARD



BOARD OF UNDERWATER
ARCHAEOLOGICAL
RESOURCES

LOCAL



Studies and Assessments Overview



Physical Environment Studies

- Geology and sediment quality
- Geotechnical surveys
- Wind and metocean conditions



Fauna Studies

- Fisheries (including benthic habitat)
- Birds and bats
- Marine mammals
- Sea turtles
- Subsea noise propagation modeling



Flora Studies

- Wetlands and onshore ecology
- Seafloor surveys
- Seagrass and macroalgae field surveys



Socioeconomic Studies

- Commercial and recreational fishing activity
- Electric and Magnetic Fields
- Marine transportation and hazard studies
- Archaeology and historic properties
- Aviation studies
- Supply chain, ports, and harbor evaluation
- Noise and traffic impact studies



Project Benefits

Climate Change

Grid Reliability

Economic Development

Community Connections



Contribution to Net-Zero Emissions

SouthCoast Wind will be among the largest contributors towards meeting New England's net-zero emissions goals

The project will **power more than 1 million homes**, and **eliminate over 4 million metric tons of GHGs** per year

Equivalent to annually offsetting:



4.4 Billion pounds of coal burned



10 Average natural gas power plants



860,000+ Gas-powered vehicles

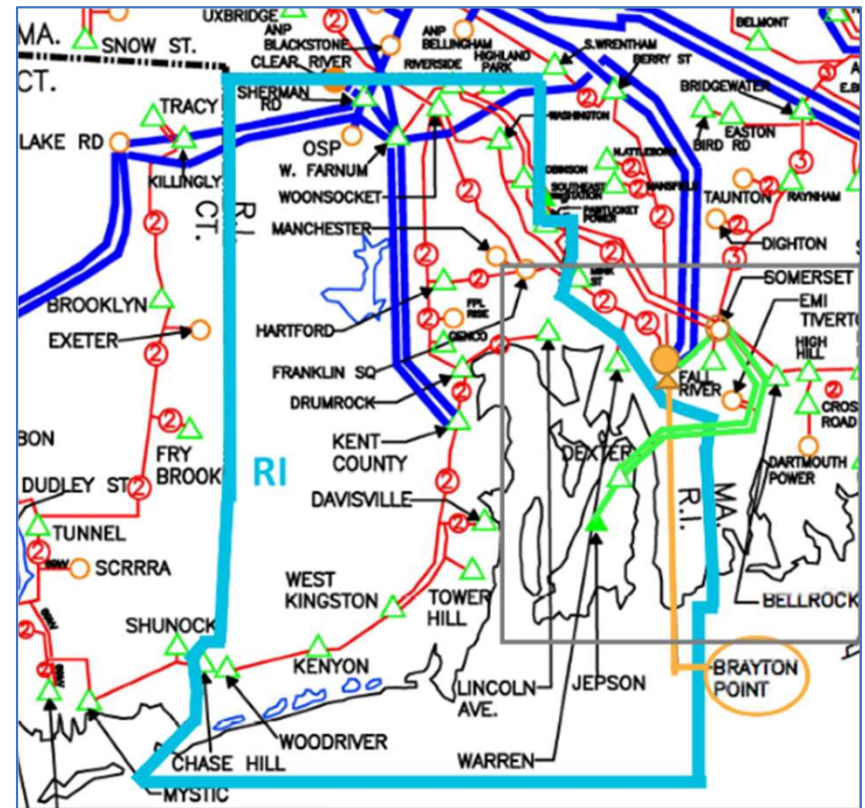
Source: U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator



Improved Grid Reliability

“...the operation of this renewable resource and deliveries of its entire output over the transmission cables that traverse through Rhode Island will bring important reliability benefits for all consumers in New England who rely on the integrated regional system, including Rhode Islanders.”

*Rhode Island Energy Facility Siting Board,
re: Revolution Wind*



ISO-NE transmission map, highlighting transmission lines from Brayton Point to Aquidneck Island

Economic Development

“**SouthCoast Wind** provides expansion opportunities for our existing Blue-economy sector companies and strengthens our momentum as we continue to develop new offshore wind projects.”

Elizabeth M. Tanner, RI Secretary of Commerce

- **8,000+ direct FTE jobs** in Rhode Island and surrounding region during construction and operation
- **Millions of dollars in submerged lands lease fees** for the offshore route in Rhode Island waters
- **Significant supply chain opportunities** with emphasis on procurement from RI
- Advances and attracts additional investments in the **Blue Economy industry** in Rhode Island and the region

Thank You!

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